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Effect of stem cells on aging and stem cell aging

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Aging is defined broadly as the normal progressive process, consequently leading to growing vulnerability to disease and death. A major challenge lies in dissecting the underlying mechanisms of aging with conventional experiments due to the complexity of and multi-contributions to the aging process, reflecting a need for investigation into it in various aspects. For this reason, the age process has currently been subjected to OMICS technologies including genomics, transcriptomics, proteomics and metabolomics, allowing the exploration of age related changes in a multifactorial manner. In addition, stem cells have used to understand "aging" and to investigate key reverse factors for "anti-aging". This suggests that a range of new approaches are needed to reveal the unknown biological basis for aging at a variety of different molecular levels using stem cells as a tool of normal aging process and can further apply fundamental aspects in biological aging and longevity.

Biography

Jisook Moon was graduated from Yonsei University, South Korea. She has completed her MS and PhD from Cornell University and Postdoctoral studies from Harvard Medical School/Mclean Hospital. She is currently an Associate Professor at CHA University. She has investigated the stem cell therapies for the neurodegenerative diseases such as Parkinson's disease (PD), Alzheimer's disease (AD), Stroke, TBI and Aging. She is recently performing translational research with MDs in the field of PD, AD and Aging. One of her main projects is regarding stem cells and aging genomics using the next generation sequencing.

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